

Listing of the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A flexible flat panel display comprising an electro-optical medium, a first substrate, a display substrate positioned coplanar with said first substrate, a first spacer and a second spacer positioned between said first substrate and said display substrate, said first substrate, display substrate, first and second spacers defining a cell structure for containing said electro-optical medium, characterized in that at least one of said first substrate and said display substrate has having a modulus of elasticity smaller than or equal to 1.5 GPa, further comprising a first layer positioned substantially coplanar and adjacent to said first substrate, which first layer has a modulus of elasticity, E_I , and said first substrate has a modulus of elasticity, E_{II} , where is E_I larger than E_{II} .

2. (currently amended) A flexible flat panel display according to claim 1, wherein said first substrate has a modulus of elasticity ~~smaller than or equal to a modulus selected among the group consisting~~ in the range of from 1.3 GPa, 1.1 GPa, 1 GPa, 0.9 GPa, 0.8 GPa, 0.7 GPa, 0.6 GPa, 0.5 GPa, 0.4 GPa, 0.3 GPa, 0.2 GPa and to 0.1 GPa.

3. (currently amended) A flexible flat panel display according to claim 1, wherein said ~~flat panel display comprises an electro-optical medium such as~~ comprises a liquid crystal, or an electro-chrome or electro-phoretic element, a light emitting

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element, an organic or inorganic light emitting element, polymer light emitting element, or any combination thereof.

4. (currently amended) A flexible flat panel display according to claim 1 further comprising one or more layers positioned substantially coplanar and adjacent to an upper and/or lower surface of said first substrate.

5. (cancelled)

6. (currently amended) A flexible flat panel display according to claim 51, wherein said first layer is positioned nearest said electro-optical medium and said first substrate furthest from said eletro-optical medium.

7. (currently amended) A flexible flat panel display according to claim 51, wherein the ratio E_T/E_{IT} is larger than ~~a number chosen among the group of numbers 2, 2.5, 3, 5, 8, 10, 15 or 20.~~

8. (currently amended) A flexible flat panel display according to claim 51, wherein said first layer has a thickness of up to 80% of the total thickness of said first substrate and said first layer.

9. (currently amended) A flexible flat panel display according to claim 1, wherein said first substrate is bendable into a radius of curvature smaller than ~~a radius selected among the group consisting of 300, 200, 100, 50, 40, 30, 20, 15, 10, 5, 3 and 1 mm.~~

10. (cancelled)

11. (currently amended) A flexible flat panel display according to claim ~~10~~1, wherein said display substrate has a modulus of elasticity ~~smaller than or equal to a modulus selected among the group consisting in the range of from 1.3 GPa, 1.1 GPa, 1 GPa, 0.9 GPa, 0.8 GPa, 0.7 GPa, 0.6 GPa, 0.5 GPa, 0.4 GPa, 0.3 GPa, 0.2 GPa and to 0.1 GPa.~~

12. (currently amended) A flexible flat panel display according to claim ~~10~~1 further comprising one or more layers positioned substantially coplanar and adjacent to an upper and/or lower surface of said display substrate.

13. (currently amended) A flexible flat panel display according to claim ~~10~~1 further comprising a second layer positioned substantially coplanar and adjacent to the display substrate, which second layer has modulus of elasticity, E_{III} , and said display substrate has a modulus of elasticity, E_{IV} , where said E_{III} is larger than E_{IV} .

14. (currently amended) A flexible flat panel display according to claim 13, wherein the ratio E_{III}/E_{IV} is larger than ~~a number chosen among the group of numbers 2, 2.5, 3, 5, 8, 10, 15 or 20.~~

15. (previously presented) A flexible flat panel display according to claim 13, wherein said second layer has a thickness of up to 80% of the total thickness of said display substrate and the second layer.

16. (currently amended) A flexible flat panel display according to claim ~~10~~1, ~~further comprising a first spacer and a~~

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~~second spacer positioned between said first substrate and said display substrate, and a cell structure for containing said electro-optical medium and defined between said first substrate, said display substrate, said first spacer and said second spacer, wherein said cell structure defining defines a cell gap d between said first substrate and display substrate.~~

17. (currently amended) A flexible flat panel display according to claim ~~16~~13, wherein said second layer is positioned nearest said electro-optical medium and said display substrate is positioned furthest from said eletro-optical medium.

18. (previously presented) A flexible flat panel display according to claim 16, wherein said flexible flat panel display being adapted to bend into a curvature, while ensuring a relative variation of said cell gap, Δ/d , equal to or smaller than 5%.

19. (currently amended) A flexible flat panel display according to claim ~~16~~18, wherein the relative variation of said cell gap, Δ/d , of said flexible flat panel display satisfies the expression:

$$\Delta/d \leq \frac{(\frac{1}{d} + \frac{1}{h})L^4}{\kappa_{Geo}R^2h}$$

where d is said cell gap, h is thickness of said first or said second substrate, L is the distance between said first and second spacers, κ_{Geo} is a geometric constant, and R is radius of curvature of said flat panel display while bent.

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20. (currently amended) A flexible flat panel display according to claim ~~16~~18, wherein said relative cell gap variation, Δ/d , is equal to or smaller than a relative cell gap variation ~~selected among the group consisting in the range of from 5%, 4%, 3%, 2.5%, 2%, 1.5%, 1%, 0.5%, 0.25% and to 0.1%.~~

21. (currently amended) A flexible flat panel display according to claim ~~10~~1 further comprising a plurality of first and second spacers positioned between said first and second substrates defining a plurality of cell structures there between.

22. (previously presented) A flexible flat panel display according to claim 1, wherein said first substrate comprises a flexible polymer being transparent or opaque.

23. (currently amended) A flexible flat panel display according to claim ~~10~~1, wherein said display substrate comprise a flexible polymer being transparent or opaque.

24. (original) A flexible substrate characterised in having a modulus of elasticity smaller than or equal to 1.5 GPa.

25. (cancelled)

26. (new) A flexible flat panel display according to claim 7, wherein the ratio E_I/E_{II} is E_I/E_{II} is in the range of from 2 to 20.

27. (new) A flexible flat panel display according to claim 9, wherein said first substrate is bendable into a radius of curvature in the range of from 200 to 1 mm.

28. (new) A flexible flat panel display according to claim 14, wherein the ratio E_{III}/E_{IV} is in the range of from 2 to 20.